

ABSTRACT OF THE DISCLOSURE

The invention relates to a drive train for the transmission of a variable power at a variable input speed for a power-generating station that is driven by a turbomachine, such as a wind turbine or a water turbine. The drive train has a power-split transmission for distributing the power to at least one first power branch and at least one second power branch. The first power branch at least indirectly drives an electric generator, while a connection is established between the first power branch and the second power branch by means of a hydrodynamic circuit, which is disposed at the output end of the power-split transmission. The power flow is influenced in such a way by the hydrodynamic circuit that the speed at which the electric generator is driven is substantially constant.